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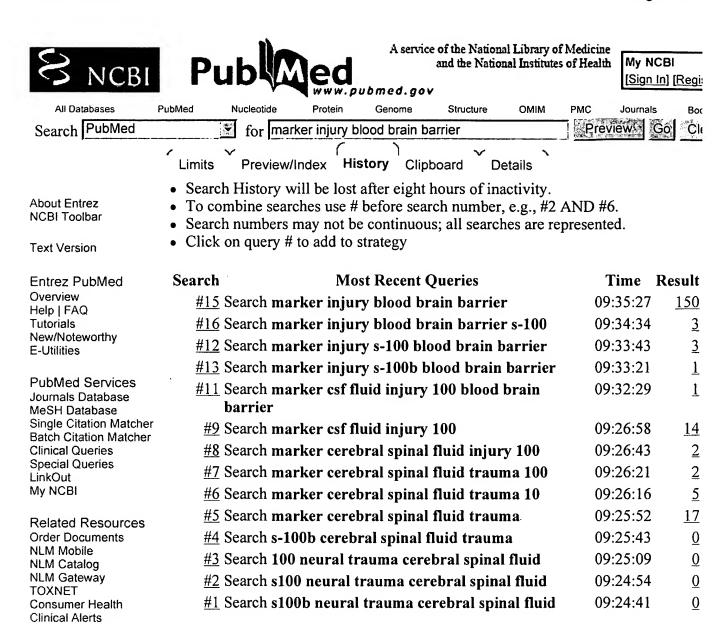
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DT
      Utility; Patent Application - First Publication
FS
      CHEMICAL
      APPLICATION
      This invention was made with government support under NIH grants MH54844
GOVI
      and MH60398. The Government has certain rights in this invention.
      The present application claims priority to U.S. Ser. No. 60/451, 306,
      filed Feb. 27, 2003, and U.S. Ser. No. 60/406,879, filed Aug. 28, 2002,
      each herein incorporated by reference in their entirety.
CLMN
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     FIG. 1 shows the nucleic acid sequence of human CAMKII-alpha . The
      sequence used in Example 1 to transcribe a CAMKII-alpha riboprobe is
      indicated in bold and italic.
     FIG. 2 shows the amino acid sequence of human CAMKII-alpha .
     FIG. 3 shows the nucleic acid sequence of human TBR1. The
      sequence used in Example 1 to transcribe a TBR1 riboprobe is
      indicated in bold and italic.
     FIG. 4 shows the amino acid sequence of human TBR1.
     FIG. 5 shows CAMKII-alpha mRNA levels in 6 layers of dorsolateral
      prefrontal cortex (DLPFC) in the brains of patients with bipolar disorder
      and normal control subjects.
     FIG. 6 shows TBR1 mRNA levels in 6 layers of dorsolateral
      prefrontal cortex (DLPFC) in the brains of patients with bipolar disorder
      and normal control subjects.
     FIG. 7 shows TBR1 mRNA levels in the dorsolateral prefrontal
      cortex layers of schizophrenic patients. A trend toward reduction in
      TBR1 expression was found in all cortical layers in
      schizophrenics. This reduction was statistically significant in layer
      III.
     FIG. 8 shows the nucleotide and amino acid sequence of CAMKI.
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      Jones; Edward G., Winters, CA, US
      Molnar; Margherita, Davis, CA, US
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      Utility; Patent Application - First Publication
FS
      CHEMICAL
      APPLICATION
GOVI This invention was made with government support under NIH grants MH54844
      and MH60398. The Government has certain rights in this invention.
PARN
      The present application claims priority to U.S. Ser. No. 60/451, 306,
      filed Feb. 27, 2003, and U.S. Ser. No. 60/406,879, filed Aug. 28, 2002,
      each herein incorporated by reference in their entirety.
CLMN
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GI
       8 Figure(s).
     FIG. 1 shows the nucleic acid sequence of human CAMKII-alpha . The
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sequence used in Example 1 to transcribe a CAMKII-alpha riboprobe is
      indicated in bold and italic.
     FIG. 2 shows the amino acid sequence of human CAMKII-alpha .
     FIG. 3 shows the nucleic acid sequence of human TBR1. The
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      TBR1 expression was found in all cortical layers in
      schizophrenics. This reduction was statistically significant in layer
      III.
     FIG. 8 shows the nucleotide and amino acid sequence of CAMKI.
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       2004:144534 USPATFULL
ΤI
       Genes involved in neuropsychiatric disorders
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IN
       Jones, Edward G., Winters, CA, UNITED STATES
       Molnar, Margherita, Davis, CA, UNITED STATES
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       Number of Claims: 50
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